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Morbidity and Mortality Weekly Report

U. S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE
PUBLIC HEALTH SERVICE

Prepared by the COMMUNICABLE DISEASE CENTER 633-3311

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UNIVERSITY OF FLORIDA JAN 1965

PROVISIONAL INFORMATION ON SELECTED NOTIFIABLE DISEASES IN THE UNITED STATES AND ON DEATHS IN SELECTED CITIES FOR WEEK ENDED DECEMBER 26, 1964

SPECIAL REPORT – Rocky Mountain Spotted Fever

EPIDEMIOLOGIC NOTES

Botulism

A total of 22 cases of botulism has been reported so far this year compared to 47 cases last year. The largest epidemic of this disease this year was in Herndon, Kansas, where 7 persons were stricken after eating home-canned dill pickles.

This year no cases have been attributed to commercially processed food as contrasted to last year when cases were traced to commercially canned tuna fish and and vacuum packed smoked chubs.

The graph opposite shows the yearly incidence of botulism in the United States since 1899.

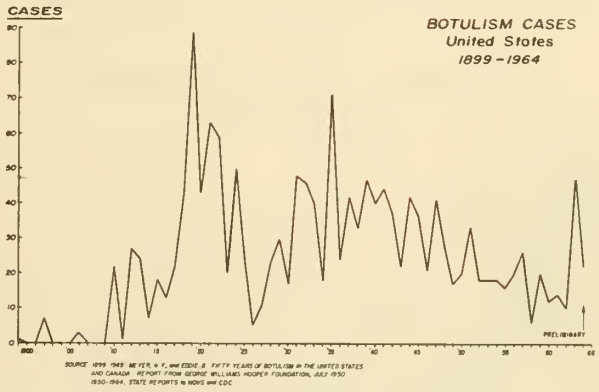


Table 1. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES

(Cumulative totals include revised and delayed reports through previous weeks)

Disease	52nd Week Ended			Cumulative, First 52 Weeks		
	December 26, 1964	December 28, 1963	Median 1959 - 1963	1964	1963	Median 1959 - 1963
Aseptic meningitis	20	35	---	2,135	1,831	---
Brucellosis	4	7	15	391	382	581
Diphtheria	5	4	24	293	298	594
Encephalitis, primary infectious	36	26	---	3,203	1,541	---
Encephalitis, post-infectious	10		---	781		---
Hepatitis, infectious including serum hepatitis	512	842	842	37,648	42,891	42,891
Measles	2,801	3,668	4,278	487,818	387,973	421,847
Meningococcal infections	50	53	46	2,808	2,356	2,197
Poliomyelitis, Total	1	9	31	119	445	1,365
Paralytic	1	9	16	92	381	885
Nonparalytic	-	-	---	15	46	---
Unspecified	-	-	---	12	18	---
Streptococcal Sore Throat and Scarlet fever	6,037	6,827	---	393,823	339,479	---
Tetanus	1	5	---	267	280	---
Tularemia	9	11	---	330	298	---
Typhoid fever	12	7	13	458	529	828
Rabies in Animals	57	61	70	4,512	3,711	3,556

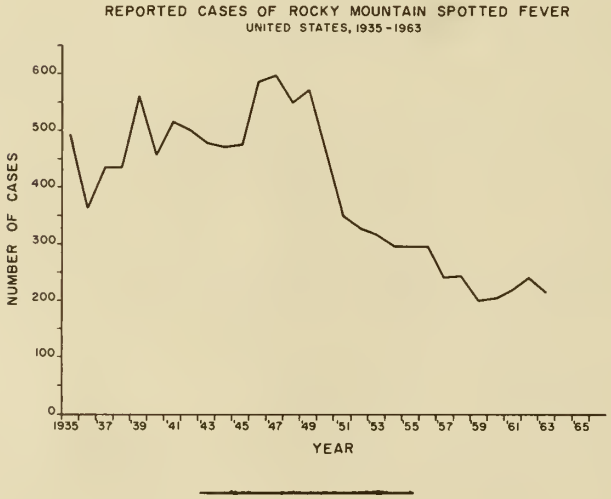
Table 2. NOTIFIABLE DISEASES OF LOW FREQUENCY

	Cum.		Cum.
Anthrax:	5	Psittacosis:	47
Botulism:	22	Rabies in Man:	1
Leptospirosis: NY Up-State-1, Texas-1	109	Smallpox:	-
Malaria: NY City-1	97	Typhus-	
Plague:	-	Murine:	25
		Rky Mt. Spotted: Va-1, Ga-1	226

SPECIAL REPORT – Rocky Mountain Spotted Fever

ROCKY MOUNTAIN SPOTTED FEVER

Although Rocky Mountain Spotted Fever was first discovered in 1896 in the mountain states, it was not until 1931 that it was identified in the Eastern United States. Since that year, cases have been reported from many areas of the country but primarily from the Eastern States. The yearly reported incidence has ranged approximately from 200 to 600 cases with the highest total at 596 cases in 1947. Since 1949, there has been a gradual decline in yearly incidence and 216 cases were reported in 1963.



Geographic Incidence

The name Rocky Mountain Spotted Fever suggests that this disease is more prevalent in or limited to the Rocky Mountain area, but neither is the case. A spot map is shown in which all counties with one or more cases reported in 1963 are outlined. The majority of cases are clustered around the Appalachian Mountain chain. In 1962 and 1963, Virginia and North Carolina both reported a larger number of cases than any other States. The South Atlantic region reported 106 cases or 49 percent of the national total in 1963 contrasted to the Rocky Mountain region with only 18 cases or 8 percent of the national total.

The tables presented on p.455 show the geographic distribution of Rocky Mountain Spotted Fever by number of cases, percent of national total and case rate per 100,000 population. During the period 1935-39, the annual case rate was 4.58 per 100,000 population in the Mountain States but this has been dropping steadily so that during the past decade the annual case rate in the South Atlantic States has exceeded that of the Mountain States.

Seasonal Pattern

Rocky Mountain Spotted Fever is distinctly seasonal in its occurrence, with highest incidence during the late spring and summer months. Weekly reporting of this disease began in 1962; on the basis of information received by the Communicable Disease Center since that time, it is shown that the peak incidence of month of onset occurs in mid-summer. The distribution of the 1963 cases by month of report is shown below.

January	0	August	51
February	0	September	17
March	0	October	8
April	8	November	4
May	23	December	6
June	45	Month not known	1
July	53	Total –	216

Mortality

The number of deaths attributed to this disease annually since 1949 as recorded by the National Vital Statistics Division are listed in the following table:

Reported Cases and Deaths: Rocky Mountain Spotted Fever By Year, 1949-1962

Years	Cases	Deaths	Case Fatality Rate
1949	570	36	6.3
1950	464	31	6.7
1951	347	26	7.5
1952	327	20	6.1
1953	313	21	6.7
1954	294	10	3.4
1955	295	8	2.7
1956	293	16	5.5
1957	240	18	7.5
1958	243	14	5.8
1959	199	10	5.0
1960	204	11	5.4
1961	219	11	5.0
1962	240	12	5.0
Total	4,248	244	5.7

The average case-fatality ratio is 5.7 deaths per 100 cases and has remained relatively constant over the years.

Age-Sex Distribution

Age and sex data of reported cases for 1962-63 were obtained on 300 patients. These data demonstrate that the under 15-year age group has the highest attack rate with more than 60 percent of the cases in this group.

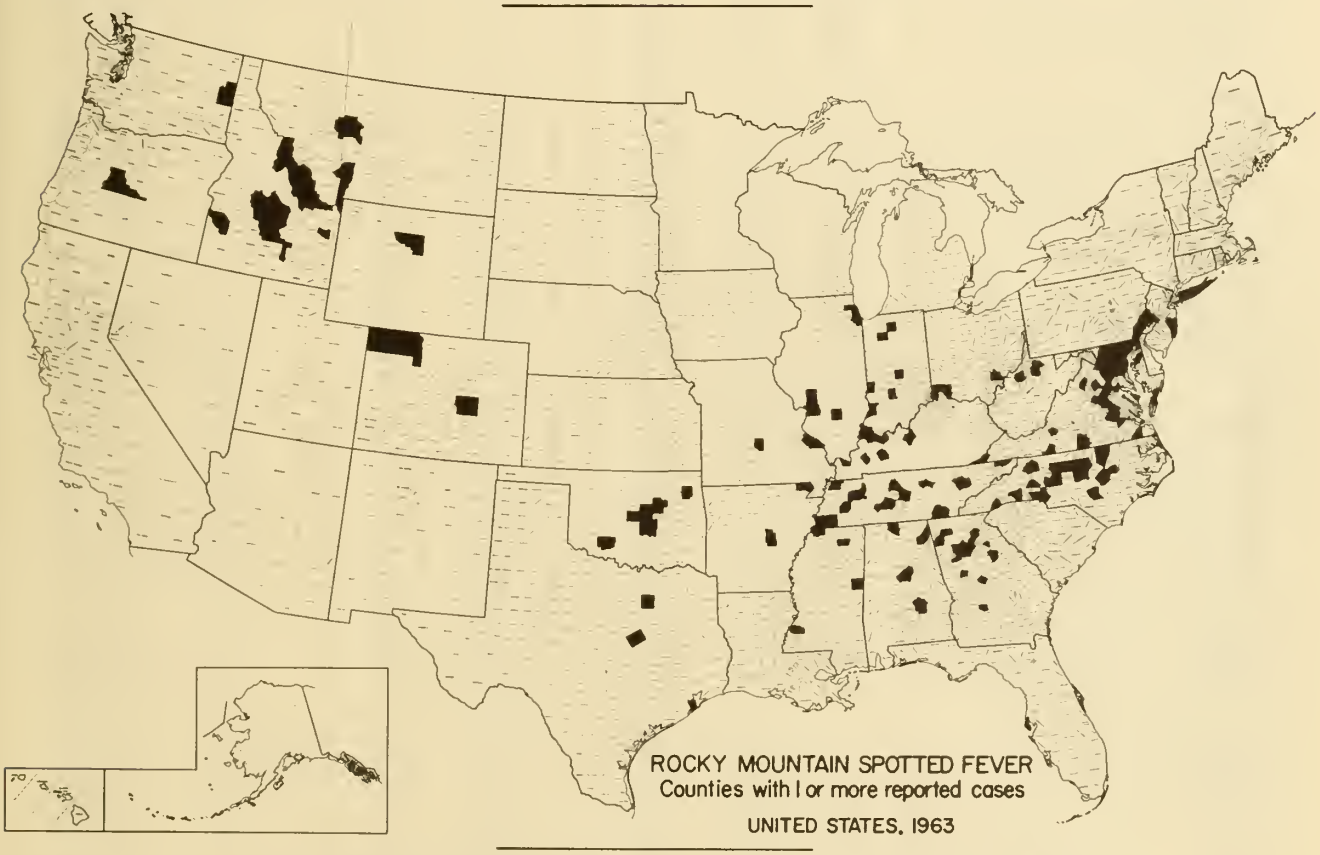
Reported Cases of Rocky Mountain Spotted Fever
1962 and 1963, by Age and Sex

Age	Male	Female	Total	Percent of Total
0-4	21	32	53	18
5-9	37	45	82	27
10-14	30	21	51	17
15-19	13	5	18	6
20-24	1	4	5	2
25-29	1	4	5	2
30-39	10	12	22	7
40-49	13	6	19	6
50-59	17	6	23	8
60+	14	8	22	7
Total	157	143	300	100

Rocky Mountain Spotted Fever
Average Annual Case Rate by Geographic Division*
5-Year Periods: 1935-1959; 4-Year Period: 1960-1963

Geographic Division	1935-39	1940-44	1945-49	1950-54	1955-59	1960-63
New England	0.02	0.01	0.02	0.01	0.03	0.01
Middle Atlantic	0.08	0.13	0.17	0.10	0.07	0.05
E. North Central	0.08	0.13	0.16	0.07	0.05	0.05
W. North Central	0.14	0.19	0.10	0.04	0.05	0.04
South Atlantic	0.87	0.91	1.35	0.80	0.52	0.40
E. South Central	0.13	0.31	0.59	0.30	0.25	0.26
W. South Central	0.02	0.14	0.31	0.11	0.08	0.09
Mountain	4.58	3.42	1.16	0.99	0.44	0.27
Pacific	0.53	0.20	0.07	0.06	0.04	0.02
Total – U.S.A.	0.35	0.36	0.39	0.22	0.15	0.12

*Rates per 100,000 based on July 1 Census Bureau Estimates



ROCKY MOUNTAIN SPOTTED FEVER – PERCENT DISTRIBUTION OF REPORTED CASES BY GEOGRAPHIC DIVISION – 5-YEAR PERIODS: 1935-1959; 4-YEAR PERIOD: 1960-1963

Geographic Division	Number of Reported Cases						Percentage of Total Cases					
	1935-39	1940-44	1945-49	1950-54	1955-59	1960-63	1935-39	1940-44	1945-49	1950-54	1955-59	1960-63
New England	7	5	7	4	13	4	0.3	0.2	0.2	0.2	1.0	0.5
Middle Atlantic	106	175	246	150	116	65	4.6	7.2	8.9	8.6	9.1	7.4
East North Central	102	170	237	110	81	78	4.5	7.0	8.6	6.3	6.4	8.9
West North Central	93	126	71	26	39	23	4.1	5.2	2.6	1.5	3.1	2.6
South Atlantic	735	863	1,355	884	639	425	32.2	35.8	48.9	50.7	50.3	48.4
East South Central	68	171	325	174	143	126	3.0	7.1	11.7	10.0	11.3	14.3
West South Central	11	93	213	83	66	63	0.5	3.8	7.7	4.8	5.2	7.2
Mountain	915	702	267	264	139	80	40.1	29.1	9.6	15.1	10.9	9.1
Pacific	245	109	51	50	34	15	10.7	4.5	1.8	2.9	2.7	1.7
Total – U.S.A.	2,282	2,414	2,772	1,745	1,270	879	100	100	100	100	100	100

(Prepared by Surveillance Section, CDC)

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 26, 1964 AND DECEMBER 28, 1963 (52nd WEEK)

Area	Aseptic Meningitis		Encephalitis Primary	Encephalitis Post-Inf.	Poliomyelitis, Total Cases				Poliomyelitis, Paralytic			
							Cumulative				Cumulative	
	1964	1963	1964	1964	1964	1963	1964	1963	1964	1963	1964	1963
UNITED STATES...	20	35	36	10	1	9	119	445	1	9	92	381
NEW ENGLAND.....	-	-	-	2	-	-	2	9	-	-	2	9
Maine.....	-	-	-	-	-	-	-	3	-	-	-	3
New Hampshire.....	-	-	-	-	-	-	-	-	-	-	-	-
Vermont.....	-	-	-	-	-	-	-	1	-	-	-	1
Massachusetts.....	-	-	-	-	-	-	-	3	-	-	-	3
Rhode Island.....	-	-	-	2	-	-	-	-	-	-	-	-
Connecticut.....	-	-	-	-	-	-	2	2	-	-	2	2
MIDDLE ATLANTIC.....	1	1	17	1	-	1	15	124	-	1	13	99
New York City.....	-	-	3	-	-	-	2	1	-	-	2	-
New York, Up-State.	1	1	2	-	-	-	10	11	-	-	9	7
New Jersey.....	-	-	11	-	-	-	3	4	-	-	2	3
Pennsylvania.....	-	-	1	1	-	1	-	108	-	1	-	89
EAST NORTH CENTRAL...	2	5	4	-	-	-	24	58	-	-	16	47
Ohio.....	-	-	1	-	-	-	3	8	-	-	2	4
Indiana.....	-	-	3	-	-	-	9	4	-	-	6	3
Illinois.....	1	2	-	-	-	-	6	17	-	-	5	16
Michigan.....	1	3	-	-	-	-	3	20	-	-	2	20
Wisconsin.....	-	-	-	-	-	-	3	9	-	-	1	4
WEST NORTH CENTRAL...	-	2	7	-	-	1	10	9	-	1	8	7
Minnesota.....	-	2	2	-	-	-	3	4	-	-	2	4
Iowa.....	-	-	-	-	-	-	1	-	-	-	1	-
Missouri.....	-	-	3	-	-	1	4	2	-	1	3	1
North Dakota.....	-	-	-	-	-	-	1	1	-	-	1	-
South Dakota.....	-	-	-	-	-	-	-	1	-	-	-	1
Nebraska.....	-	-	-	-	-	-	-	1	-	-	-	1
Kansas.....	-	-	2	-	-	-	1	-	-	-	1	-
SOUTH ATLANTIC.....	2	4	3	-	-	5	35	110	-	5	28	96
Delaware.....	-	-	-	-	-	-	-	1	-	-	-	1
Maryland.....	-	-	-	-	-	-	1	1	-	-	1	1
Dist. of Columbia..	-	-	-	-	-	-	-	1	-	-	-	-
Virginia.....	1	-	1	-	-	-	4	21	-	-	4	16
West Virginia.....	-	-	-	-	-	4	1	8	-	4	1	8
North Carolina.....	-	-	-	-	-	-	12	6	-	-	7	5
South Carolina.....	-	-	-	-	-	-	3	9	-	-	3	8
Georgia.....	-	-	-	-	-	-	3	22	-	-	3	21
Florida.....	1	4	2	-	-	1	11	41	-	1	9	36
EAST SOUTH CENTRAL...	3	4	-	-	-	1	6	75	-	1	5	69
Kentucky.....	-	-	-	-	-	-	-	-	-	-	-	-
Tennessee.....	1	-	-	-	-	-	3	12	-	-	2	11
Alabama.....	2	-	-	-	-	-	2	53	-	-	2	48
Mississippi.....	-	4	-	-	-	1	1	10	-	1	1	10
WEST SOUTH CENTRAL...	-	2	-	-	1	-	13	28	1	-	11	27
Arkansas.....	-	-	-	-	-	-	-	4	-	-	-	3
Louisiana.....	-	-	-	-	1	-	1	14	1	-	1	14
Oklahoma.....	-	-	-	-	-	-	3	1	-	-	2	1
Texas.....	-	2	-	-	-	-	9	9	-	-	8	9
MOUNTAIN.....	-	2	1	-	-	1	11	9	-	1	6	7
Montana.....	-	-	-	-	-	-	1	-	-	-	1	-
Idaho.....	-	-	-	-	-	-	1	1	-	-	1	1
Wyoming.....	-	1	-	-	-	-	2	-	-	-	2	-
Colorado.....	-	1	1	-	-	-	1	2	-	-	1	1
New Mexico.....	-	-	-	-	-	-	5	1	-	-	-	-
Arizona.....	-	-	-	-	-	-	1	3	-	-	1	3
Utah.....	-	-	-	-	-	1	-	1	-	1	-	1
Nevada.....	-	-	-	-	-	-	-	1	-	-	-	1
PACIFIC.....	12	15	4	7	-	-	3	23	-	-	3	20
Washington.....	-	4	-	1	-	-	-	2	-	-	-	2
Oregon.....	-	1	-	-	-	-	1	2	-	-	1	1
California.....	11	6	3	6	-	-	2	19	-	-	2	17
Alaska.....	-	-	-	-	-	-	-	-	-	-	-	-
Hawaii.....	1	4	1	-	-	-	-	-	-	-	-	-
Puerto Rico	-	-	-	-	-	-	-	5	-	-	-	4

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 26, 1964 AND DECEMBER 28, 1963 (52nd WEEK) - Continued

Area	Brucellosis		Diphtheria		Infectious Hepatitis including Serum Hepatitis						Typhoid Fever	
		Cum.		Cum.	Total	Under 20 years	20 years and over	Age Unknown	Cumulative			Cum.
	1964	1964	1964	1964	1964	1964	1964	1964	1964	1963	1964	1964
UNITED STATES...	4	391	5	293	512	248	226	38	37,648	42,891	12	458
NEW ENGLAND.....	-	2	1	45	62	29	28	5	3,363	4,946	-	17
Maine.....	-	-	-	39	5	4	1	-	1,018	2,250	-	-
New Hampshire.....	-	-	-	-	7	4	2	1	268	614	-	-
Vermont.....	-	-	-	-	5	2	-	3	386	154	-	-
Massachusetts.....	-	2	1	6	20	9	10	1	779	1,193	-	8
Rhode Island.....	-	-	-	-	9	2	7	-	237	125	-	6
Connecticut.....	-	-	-	-	16	8	8	-	675	610	-	3
MIDDLE ATLANTIC.....	-	9	-	10	98	42	56	-	8,153	8,532	-	68
New York City.....	-	-	-	5	13	1	12	-	1,293	1,332	-	34
New York, Up-State.	-	5	-	-	36	19	17	-	3,527	3,686	-	15
New Jersey.....	-	-	-	2	13	3	10	-	1,333	1,247	-	2
Pennsylvania.....	-	4	-	3	36	19	17	-	2,000	2,267	-	17
EAST NORTH CENTRAL...	-	51	-	11	119	73	44	2	6,101	6,876	6	91
Ohio.....	-	5	-	-	35	22	13	-	1,606	1,888	3	26
Indiana.....	-	1	-	1	1	1	-	-	496	632	2	24
Illinois.....	-	30	-	9	15	10	4	1	1,156	1,386	-	23
Michigan.....	-	6	-	1	66	39	27	-	2,435	2,662	1	12
Wisconsin.....	-	9	-	-	2	1	-	1	408	308	-	6
WEST NORTH CENTRAL...	3	169	-	36	37	20	14	3	2,134	1,932	1	35
Minnesota.....	-	9	-	18	4	1	2	1	233	296	-	3
Iowa.....	2	107	-	-	24	13	10	1	456	344	-	4
Missouri.....	-	10	-	1	1	-	1	-	506	617	1	18
North Dakota.....	-	2	-	2	-	-	-	-	64	111	-	2
South Dakota.....	1	22	-	3	-	-	-	-	135	150	-	1
Nebraska.....	-	13	-	5	1	-	-	1	85	132	-	3
Kansas.....	-	6	-	7	7	6	1	-	655	282	-	4
SOUTH ATLANTIC.....	-	40	3	88	39	16	21	2	3,470	4,322	2	102
Delaware.....	-	-	-	-	-	-	-	-	78	85	-	-
Maryland.....	-	-	-	1	11	7	4	-	643	539	-	8
Dist. of Columbia..	-	-	-	-	2	-	2	-	72	110	-	-
Virginia.....	-	17	-	-	7	3	2	2	565	829	-	11
West Virginia.....	-	1	-	-	1	1	-	-	491	700	-	-
North Carolina.....	-	4	-	2	5	3	2	-	559	1,079	-	21
South Carolina.....	-	-	-	7	2	-	2	-	155	171	-	13
Georgia.....	-	14	-	32	2	1	1	-	114	177	-	28
Florida.....	-	4	3	46	9	1	8	-	793	632	2	21
EAST SOUTH CENTRAL...	1	19	1	32	16	11	5	-	2,533	3,815	-	45
Kentucky.....	-	6	-	-	2	2	-	-	879	1,168	-	10
Tennessee.....	1	6	-	2	9	4	5	-	904	1,456	-	21
Alabama.....	-	4	1	25	1	1	-	-	486	602	-	8
Mississippi.....	-	3	-	5	4	4	-	-	264	589	-	6
WEST SOUTH CENTRAL...	-	47	-	41	20	10	10	-	2,924	2,881	3	47
Arkansas.....	-	6	-	3	4	3	1	-	295	312	-	16
Louisiana.....	-	5	-	12	7	4	3	-	690	595	2	8
Oklahoma.....	-	9	-	1	3	1	2	-	135	122	-	9
Texas.....	-	27	-	25	6	2	4	-	1,804	1,852	1	14
MOUNTAIN.....	-	30	-	2	43	13	5	25	2,330	2,713	-	14
Montana.....	-	-	-	-	4	2	2	-	194	341	-	-
Idaho.....	-	-	-	-	11	-	-	11	356	445	-	-
Wyoming.....	-	-	-	-	1	1	-	-	94	44	-	1
Colorado.....	-	-	-	-	7	-	-	7	604	573	-	-
New Mexico.....	-	1	-	1	13	10	3	-	341	345	-	5
Arizona.....	-	2	-	1	5	-	-	5	497	610	-	8
Utah.....	-	26	-	-	2	-	-	2	193	336	-	-
Nevada.....	-	1	-	-	-	-	-	-	51	19	-	-
PACIFIC.....	-	24	-	28	78	34	43	1	6,640	6,874	-	39
Washington.....	-	-	-	13	5	2	3	-	666	1,130	-	2
Oregon.....	-	2	-	-	4	1	2	1	654	796	-	-
California.....	-	22	-	15	64	27	37	-	4,879	4,687	-	37
Alaska.....	-	-	-	-	4	4	-	-	317	212	-	-
Hawaii.....	-	-	-	-	1	-	1	-	124	49	-	-
Puerto Rico	-	-	-	13	12	7	5	-	997	945	-	13

Table 3. CASES OF SPECIFIED NOTIFIABLE DISEASES: UNITED STATES
FOR WEEKS ENDED
DECEMBER 26, 1964 AND DECEMBER 28, 1963 (52nd WEEK) - Continued

Area	Measles	Meningococcal Meningitis			Streptococcal Sore Throat and Scarlet Fever		Tetanus		Tularemia		Rabies in Animals	
			Cumulative					Cum.		Cum.		Cum.
	1964	1964	1964	1963	1964	1963	1964	1964	1964	1964	1964	1964
UNITED STATES...	2,801	50	2,808	2,356	6,037	6,827	1	267	9	330	57	4,512
NEW ENGLAND.....	701	2	98	133	543	428	-	9	-	1	-	38
Maine.....	43	-	9	19	23	31	-	-	-	-	-	29
New Hampshire.....	53	-	2	4	-	3	-	-	-	-	-	2
Vermont.....	10	-	4	6	-	8	-	-	-	-	-	6
Massachusetts.....	395	1	41	59	121	68	-	9	-	1	-	1
Rhode Island.....	66	1	12	13	33	73	-	-	-	-	-	-
Connecticut.....	134	-	30	32	366	245	-	-	-	-	-	-
MIDDLE ATLANTIC.....	213	7	356	337	314	324	-	23	-	1	3	127
New York City.....	53	-	48	50	18	24	-	-	-	-	-	-
New York, Up-State.	103	4	110	104	188	187	-	9	-	-	3	118
New Jersey.....	15	1	110	57	44	51	-	6	-	-	-	-
Pennsylvania.....	42	2	88	126	64	62	-	8	-	1	-	9
EAST NORTH CENTRAL...	684	7	376	363	740	757	-	51	3	30	4	611
Ohio.....	111	3	99	105	63	107	-	14	1	4	-	309
Indiana.....	31	-	59	47	62	65	-	15	-	2	1	34
Illinois.....	21	1	100	72	55	117	-	14	1	17	1	116
Michigan.....	396	3	82	104	411	338	-	7	1	3	-	58
Wisconsin.....	125	-	36	35	149	130	-	1	-	4	2	94
WEST NORTH CENTRAL...	131	2	160	151	215	287	-	18	-	59	18	1,328
Minnesota.....	2	2	35	33	10	18	-	5	-	2	3	428
Iowa.....	73	-	9	8	80	34	-	6	-	1	4	459
Missouri.....	2	-	75	44	4	6	-	4	-	32	2	192
North Dakota.....	52	-	20	17	83	85	-	-	-	-	-	72
South Dakota.....	2	-	3	7	9	15	-	1	-	15	-	95
Nebraska.....	-	-	7	25	1	-	-	-	-	-	1	37
Kansas.....	NN	-	11	17	28	129	-	2	-	9	8	45
SOUTH ATLANTIC.....	153	6	535	429	725	534	1	66	1	32	8	608
Delaware.....	-	-	7	4	5	2	-	-	-	-	-	-
Maryland.....	7	1	44	58	57	14	-	4	-	-	-	3
Dist. of Columbia..	-	-	17	9	3	6	-	1	-	1	-	-
Virginia.....	70	3	67	90	252	144	-	8	1	8	8	333
West Virginia.....	39	1	36	23	187	165	-	1	-	-	-	38
North Carolina.....	22	-	95	82	29	11	-	16	-	7	-	5
South Carolina.....	-	-	59	24	28	16	-	5	-	-	-	2
Georgia.....	1	1	88	38	21	21	-	5	-	15	-	120
Florida.....	14	-	122	101	143	155	1	26	-	1	-	107
EAST SOUTH CENTRAL...	97	6	210	159	503	815	-	35	4	38	17	695
Kentucky.....	12	2	68	34	33	154	-	8	-	4	4	67
Tennessee.....	66	1	67	72	363	623	-	14	4	26	11	542
Alabama.....	13	1	46	29	14	25	-	8	-	3	2	23
Mississippi.....	6	2	29	24	93	13	-	5	-	5	-	63
WEST SOUTH CENTRAL...	143	5	314	218	432	901	-	30	1	109	3	637
Arkansas.....	-	1	35	14	1	3	-	8	-	66	-	148
Louisiana.....	-	-	133	89	-	8	-	4	-	6	1	83
Oklahoma.....	14	-	16	36	68	-	-	1	1	21	-	98
Texas.....	129	4	130	79	363	890	-	17	-	16	2	308
MOUNTAIN.....	422	1	108	87	1,176	2,207	-	6	-	57	2	145
Montana.....	203	-	1	5	72	106	-	-	-	19	-	1
Idaho.....	63	-	5	6	177	44	-	1	-	-	-	-
Wyoming.....	-	-	5	7	94	36	-	2	-	12	-	-
Colorado.....	37	-	22	26	458	1,459	-	-	-	-	-	8
New Mexico.....	-	1	48	5	89	294	-	1	-	-	-	52
Arizona.....	5	-	8	13	123	143	-	1	-	2	2	70
Utah.....	96	-	8	20	163	125	-	1	-	24	-	3
Nevada.....	18	-	11	5	-	-	-	-	-	-	-	11
PACIFIC.....	257	14	651	479	1,389	574	-	29	-	3	2	323
Washington.....	45	-	48	40	149	319	-	3	-	-	-	-
Oregon.....	45	1	28	35	16	20	-	1	-	1	-	11
California.....	148	11	553	373	1,126	192	-	23	-	2	2	312
Alaska.....	3	-	7	17	31	1	-	-	-	-	-	-
Hawaii.....	16	2	15	14	67	42	-	2	-	-	-	-
Puerto Rico	47	1	36	12	4	8	-	66	-	-	1	28

Table 4 (D). TOTAL DEATHS AMONG PERSONS 65 YEARS AND OVER IN REPORTING CITIES

(Tables 4(A), 4(B), 4(C), and 4(D) will be published in sequence covering a four-week period.)°

Area	For weeks ending			
	12/5	12/12	12/19	12/26
NEW ENGLAND:				
Boston, Mass.	163	170	192	144
Bridgeport, Conn.	30	30	21	20
Cambridge, Mass.	24	12	22	11
Fall River, Mass.	30	23	18	12
Hartford, Conn.	27	33	43	30
Lowell, Mass.	12	15	9	12
Lynn, Mass.	15	18	19	16*
New Bedford, Mass.	15	21	23	12
New Haven, Conn.	35	24	25	22
Providence, R.I.	53	39	55	51
Somerville, Mass.	8	4	9	10
Springfield, Mass.	29	40	29	32
Waterbury, Conn.	28	15	28	16
Worcester, Mass.	39	29	33	23
MIDDLE ATLANTIC:				
Albany, N.Y.	26	24	27	26*
Allentown, Pa.	21	30	25	23
Buffalo, N.Y.	107	104	79	77
Camden, N.J.	26	26	34	29
Elizabeth, N.J.	25	24	12	13
Erie, Pa.	20	28	17	21
Jersey City, N.J.	50	45	49	36
Newark, N.J.	69	55	41	42
New York City, N.Y.	1,022	997	1,062	937
Paterson, N.J.	25	27	25	23
Philadelphia, Pa.	287	241	274	287
Pittsburgh, Pa.	137	114	90	110
Reading, Pa.	29	39	38	32
Rochester, N.Y.	84	84	86	65
Schenectady, N.Y.,	24	20	22	15
Scranton, Pa.	32	37	27	27
Syracuse, N.Y.	35	35	26	35
Trenton, N.J.	21	25	24	28
Utica, N.Y.	13	24	18	18*
Yonkers, N.Y.	31	20	26	21*
EAST NORTH CENTRAL:				
Akron, Ohio	33	41	28	27
Canton, Ohio	17	32	21	20
Chicago, Ill.	388	448	427	365
Cincinnati, Ohio	106	84	87	67
Cleveland, Ohio	123	124	106	88
Columbus, Ohio	86	63	73	64
Dayton, Ohio	33	42	48	37
Detroit, Mich.	199	196	204	217
Evansville, Ind.	27	40	32	29
Flint, Mich.	18	24	14	28
Fort Wayne, Ind.	35	22	26	24
Gary, Ind.	18	20	13	24
Grand Rapids, Mich.	42	36	35	37
Indianapolis, Ind.	93	93	91	78
Madison, Wis.	21	13	31	15
Milwaukee, Wis.	94	73	72	50
Peoria, Ill.	27	26	12	17
Rockford, Ill.	20	17	10	11
South Bend, Ind.	25	26	26*	21
Toledo, Ohio	60	66	65	65
Youngstown, Ohio	44	33	31	26
WEST NORTH CENTRAL:				
Des Moines, Iowa	50	35	36	34
Duluth, Minn.	13	17	18	14
Kansas City, Kans.	11	26	22	22
Kansas City, Mo.	73	90	88	61
Lincoln, Nebr.	22	26	15	11
Minneapolis, Minn.	84	84	81	35
Omaha, Nebr.	60	41	47	30
St. Louis, Mo.	155	133	158	117
St. Paul, Minn.	50	59	45	25
Wichita, Kans.	33	33	42	25
SOUTH ATLANTIC:				
Atlanta, Ga.	50	58	57	36
Baltimore, Md.	155	134	126	125
Charlotte, N.C.	15	12	21	14
Jacksonville, Fla.	37	39	48	20
Miami, Fla.	42	32	50	41
Norfolk, Va.	31	31	24	22
Richmond, Va.	45	42	39	31
Savannah, Ga.	13	13	15	11
St. Petersburg, Fla.	49	64	67	66
Tampa, Fla.	39	43	26	35
Washington, D.C.	97	99	101	99
Wilmington, Del.	31	26	23	18
EAST SOUTH CENTRAL:				
Birmingham, Ala.	48	43	49	28
Chattanooga, Tenn.	25	27	24	23
Knoxville, Tenn.	19	21	17	11
Louisville, Ky.	68	67	67	40
Memphis, Tenn.	69	60	61	45
Mobile, Ala.	29	19	12	18
Montgomery, Ala.	18	15	16	13
Nashville, Tenn.	46	55	44	24
WEST SOUTH CENTRAL:				
Austin, Tex.	27	20	18	18
Baton Rouge, La.	19	21	19	18
Corpus Christi, Tex.	9	22	12	9
Dallas, Tex.	74	74	80	73
El Paso, Tex.	22	21	24	14*
Fort Worth, Tex.	37	53	47	40
Houston, Tex.	123	75	91	49
Little Rock, Ark.	24	34	30	23
New Orleans, La.	149	82	95	70
Oklahoma City, Okla.	55	44	38	25
San Antonio, Tex.	68	60	57	48
Shreveport, La.	30	28	31	28
Tulsa, Okla.	28	49	35	32
MOUNTAIN:				
Albuquerque, N. Mex.	13	15	18	11
Colorado Springs, Colo.	14	24	17	16
Denver, Colo.	71	83	61	56
Ogden, Utah.	12	16	8	12
Phoenix, Ariz.	52	48	43	40
Pueblo, Colo.	7	12	6	20
Salt Lake City, Utah.	30	26	19	27
Tucson, Ariz.	33	26	30	28
PACIFIC:				
Berkeley, Calif.	15	10	9	8
Fresno, Calif.	20	33	28	23
Glendale, Calif.	40	41	23	25
Honolulu, Hawaii	30	17	18	12
Long Beach, Calif.	44	46	34	41
Los Angeles, Calif.	334	343	287	248
Oakland, Calif.	49	39	25	83
Pasadena, Calif.	32	18	23	18
Portland, Oreg.	75	64	61	54
Sacramento, Calif.	38	35	57	48
San Diego, Calif.	67	58	54	60
San Francisco, Calif.	134	108	114	74
San Jose, Calif.	22	19	21	19
Seattle, Wash.	84	86	95	106
Spokane, Wash.	33	40	30	30
Tacoma, Wash.	26	29	31	22

*Estimate - based on average percent of divisional total.
Totals for previous weeks include reported corrections.

NOTE: All deaths by place of occurrence.

°Current Week Mortality for 108 Selected Cities

4(A) Total Mortality, all ages	10,621
4(B) Pneumonia-Influenza Deaths, all ages	416
4(C) Total Deaths under 1 Year of Age	624
4(D) Total Deaths, Persons 65 years and over	5,929

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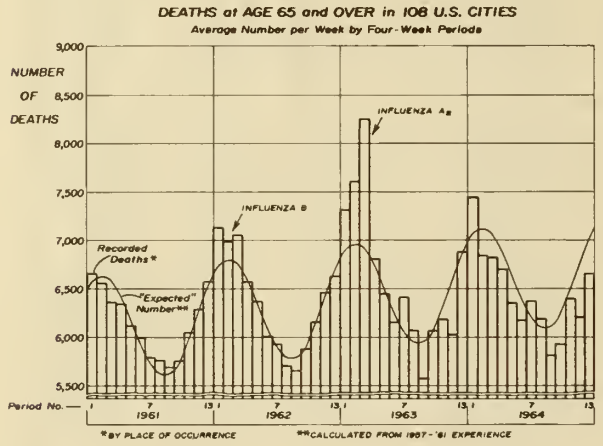
SUMMARY OF DEATHS AMONG PERSONS 65 YEARS AND OVER IN 108 U. S. CITIES

The weekly average number of deaths among persons 65 years and over in 108 cities for the four-week period ending December 26 was 6,658 as compared with an expected weekly average of 7,032.

	Week Ending				4-Week Total	Weekly Average
	12/5	12/12	12/19	12/26		
Observed	7,154	6,846	6,701	5,929	26,630	6,658
Expected	6,939	7,004	7,065	7,119	28,127	7,032
Excess	215	−158	−364	−1,190	−1,497	−374



(See table page 459)

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THE EDITOR
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COMMUNICABLE DISEASE CENTER
ATLANTA, GEORGIA 30333

NOTES: THESE PROVISIONAL DATA ARE BASED ON WEEKLY TELEGRAMS TO THE COMMUNICABLE DISEASE CENTER BY THE INDIVIDUAL STATE HEALTH DEPARTMENTS.

SYMBOLS: --- DATA NOT AVAILABLE
— QUANTITY ZERO

PROCEDURES FOR CONSTRUCTION OF VARIOUS MORTALITY CURVES MAY BE OBTAINED FROM STATISTICS SECTION, COMMUNICABLE DISEASE CENTER, PUBLIC HEALTH SERVICE, U.S. DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE, ATLANTA, GEORGIA 30333.

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